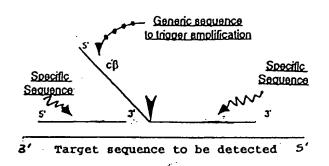
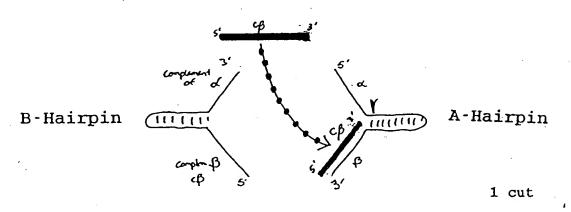


### FIGURE 1 B

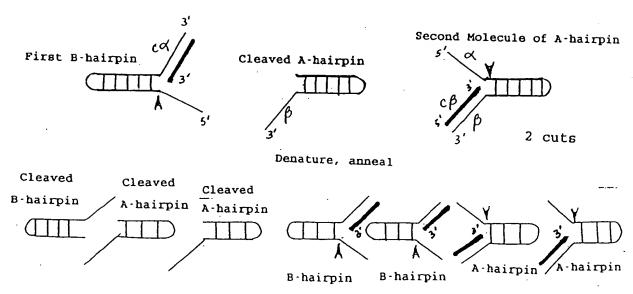
### PART ONE: TRIGGER REACTION



### PART TWO: DETECTION REACTION



Denature, anneal



AJORITY	MAJORITY (SEQ ID NO:7)	AT 6XX G G C G A T G C T C T T T G A G C C C G A A A G G C G G G T G C T G G T G G A G G G C C A C C T G G C C T	
DNAPTAD XNAPTH XNAPTTH	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ ID NO:3)		70 67 70
NAJORITY		A C C G C A C C T T C T T C G C C C T C A G G C C C A C C A G C C G G G G G G	
INAPTAO INAPTR INAPTTH			140 137 140
MAJORITY		GT GXT CGT GGT CT TT GAC GC C CAA G	-
NAPTAO NAPTH VAPTH		: : :	207 204 210
AJORITY		GCCCCCT CCTT CCGCCA CGA GGCCT A CGA GGCCT A CAA GGC GGC GGG CG G G C C C C C C C	) !
WPTAO WPTR WPTTH		2	277 274 280
<b>JORITY</b>		CIT GCGCGCCT CCAGGT CCCCGGCTA	
APTAO APTE.		· <b>-</b> .	347 344 350

MAJORITY (	MAJORITY (SEQ ID NO:7)	C G A G G G G G G G G G G T G G C C G G G G G	
IDNAPTAO (IDNAPTR. (IDNAPT	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ ID NO:3)		417 414 420
MAJORITY	·	A C C G C C G A C C G C C C C C T A C C A G C T T T C C G A C C C C A T C C C C C C C C C C C C C	
DNAPTAD DNAPTR DNAPTR		T AAA T G. G. G A G.	487 484 490
MAJORITY		T CA CC C C C C C C C C C T T G C C C A G T A C C C C C C C C C C C C C C C C C C	
IDNAPTAO IDNAPTEL IDNAPTTH		G. C.	557. 554 560
MAJORITY		GGGGGACCCCT CCGACAGCT CCCCGGGGT CAAGGGGCAT CGGGGAGAGAGAGGCGCCXGAAGCT CCT CXAG	
JNAPTAO CNAPTEL CNAPTTH		C	627 624 630
MAJORITY		GAGT GGGGGGGCCT GGAAAGCT CCT CAAGAACCT GGACCGGGT GAAGCCCGGC··· CXT CCGGGAGAGA	•
ONAPTAO ONAPTEL ONAPTTH	,	GC. T. C. C. T. C.	694 691 700

	764 761 770		834 831 840		.904 901 910		974 971 980		1044 1041 1050
T CCA G G C C C A C A T G G A X G G T G G T G C G T G G G T T C C C A G G T G C G G G G G C T G C C C C C G G A	T	G G T G G A C T T C G C C C A A G C G G G G G C C C G G G G	AA	G G C A G C C T C C C A C G A G T T C G G C C C T C G A G G G C C C C A A G G C C C C G G A G G C C C C	A	CGGAAGGGGCCTI CGT GGGCTTT GT CCTTT CCCGCCCCGAGCCCAT GT GGGCCGAGCTT CT GGCCCT GGC		C G C C C C C C C G G G G G G G G G G G	T. GGI. GT
AJORITY (SEQ ID NO:7)	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ ID NO:3)								• •
iajority	NAPTAD NAPTR VAPTTH	AJORITY	NAPTAD SPPTE PAPTE	AURITY	NAPTAD VAPTR.	AURITY	NAPTAO NAPTH.	AJORITY	NAPTAO XAPTEL XAPTTH

CGGGGXCT CCT CGCCAAGGACCT GGCGGTTTT GGCGCT GAGGGGGGGGTXGACCT CXT GCCGGGGGGG	) 6 T A A.G C A T. G C C C C C C C C C C	ACCCCATGCTCCTCGCCTACCTCCTGCACCCCTCCAACACCCCCCCC		GGGGGAGTGGAGGGAXGCGGGGGGGGGGCCCTXTCCGAGGGGTCTTCCXGAAGCTXXXGGAG	C	CGCCTTGAGGGGGGGGGGGGTCCTTTGGCTTTACCAGGGGGGGG	A. G A A. A. A. G	C C C A C A T G G A G G C C A C G G G G G T X C G G G C G T G G G C C T C C C A G G C C C T T C C C T G G A G C T G C C C G C A	6666666666
(SEQ ID NO.7)	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ ID NO:3)								
MAJORITY	DNAPTAD DNAPTR DNAPTH	, MAJORITY	DNAPTAD DNAPTR DNAPTTH	MAJORITY	ONAPTAD ONAPTA. ONAPTTH	MAJORÍTY	ONAPTAO CNAPTR. CNAPTTH	MAJORITY	ONAPTAD ONAPTH. DNAPTTH
		•	-,						

MAJORITY	MAJORITY (SEQ ID NO:7)	GGAGAT CCGCCGCCT CGAGGAGGAGGT CTT CCGCCT GGCCGGCCACCCTT CAACCT CAACT CCGGGAC
DNAPTAD DNAPTR DNAPTTH	(SEQ ID NO:1) ( SEQ ID NO:2) (SEQ ID NO:3)	G. G A G G
MAJORITY		CAGCT GGAAAGGGT GCT CTTT GAGGGT XGGGGTT CCCGCCAT CGGCAAGAGGGGGAGAGAGACKGGCAAGC
DNAPTAD CNAPTR CNAPTTH		6. 6. 6. 7
MAJORITY		G CT C CA C C A G C C C C C C C C C C C C C
ONAPTAO ONAPTH ONAPTTH		6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6
MAJORITY		C C G G G G G C C A C C A A G G A G A C C C C
ONAPTAD CNAPTE CNAPTTH		G. G. A
MAJORITY		C G C C T C C A C C C C C C T T C A A C C A C G C C C A C G C C A C G G C C A G G C T T A G T A G C T C C C A C C C T G C
DNAPTAO DNAPTH DNAPTTH		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

	1814 1811 1820		1884 1881 1890		1954 1951 1960		2024 2021 2030		2094 2091 2100
A GA A CA T C C C C C C C C C C C C C C C C	6. T. 6 6	GTT GGT GGCCCT GGA CTATA GCCA GATA GA G CT C G G G G T C C G G C C C C C C C	A	AT CCGGGT CTT CCAGGAGGGGAGGAGACAT CCACACACCAGAGCGGCGAGCT GGATGTT CGGCGT CCCCCCGG	G	A G G C C C G G G C C C C C G G G G G G	A. GG. A	CCACCCCT CT CCCAGGAGGTT GCCAT CCCCT ACGAGGGGGGGT GGCCTT CATT GAGGGGT ACTT CCAG	T
MAJORITY (SEQ ID NO:7)	( SEQ ID NO:1) (SEQ ID NO:2) ( SEQ ID NO:3)	٠.							
MAJORITY	DNAPTAD DNAPTR DNAPTTH	MAJORITY	ONAPTAD ONAPTR. ONAPTH	MAJORITY	DNAPTAD DNAPTR. DNAPTR	MAJORITY	DNAPTAD DNAPTR DNAPTTH	MAJORITY	DNAPTAD DNAPTA DNAPTTH

FIGURE 2 (cont'd)

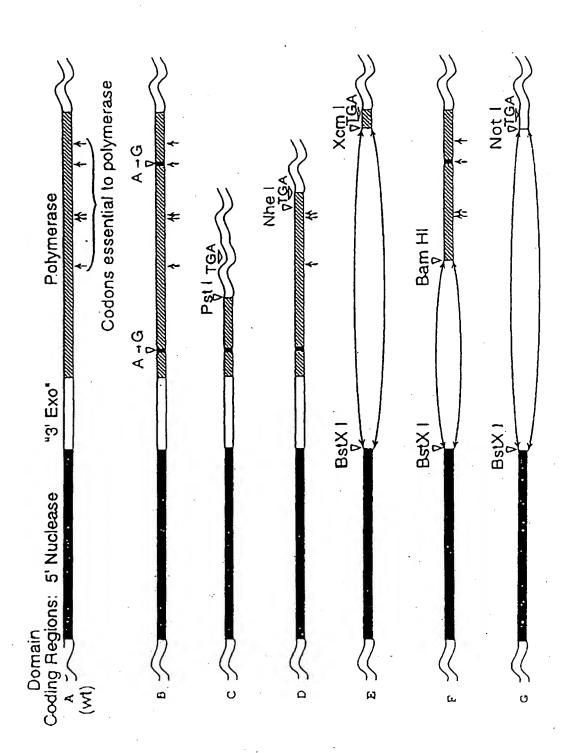
	2164 2161 2170		2234 2231 2240		2304 2301 2310		2374 2371 2380		2444 2441 2450
MA INSERTING TO A DESTREE OF THE SECOND OF T		CCCT CTT CGGCGGGGGGGGT A CGT GCCCGACCT CAACGCGGGGT GAAGAGGGGT GCGGGGGGGGGG	. c	G C G C A T G G C C T T C A A C A T G C C C C C C C C C C C C C C C C C C		TICCCCCCCCTXCACCAAATGGGGGCCAGGATGCTXCAGGTCCACGACGAGGTGGTCCTCGAGGCCC		C C A A A G A G C G G G G G G G G G G G	. А А
(7:ON OI CES)	(SEQ ID NO:1) (SEQ ID NO:2) (SEQ ID NO:3)					>		≽	g _
AL COURT	ONAPTAD ONAPTA ONAPTH.	MAJORITY	DNAPTAD DNAPTR DNAPTR	YTT BUT VIN	DNAPTAD DNAPTH DNAPTH	בווים מו	DNAPTAD DNAPTA DNAPTA DNAPTA	MAJORITY	DNAPTAD CNAPTR CNAPTH

GCCCCTGGAGGTGGGGATGGGGGAGGACTGGCTCTCCGGCAAGGAGTAG	60
(SEQ ID NO:7)	DNAPTAO (SEO ID NO:1) DNAPTA (SEO ID NO:2) DNAPTTH (SEO ID NO:3)
MAJORITY	ONAPTAO ONAPTH CNAPTTH

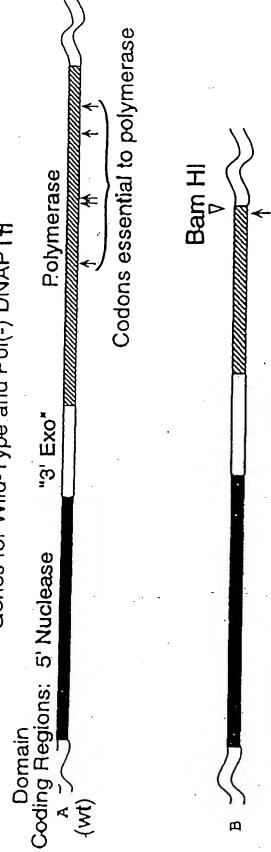
	MAJORITY (SEQ ID NO:8)	MX A ML PLFEPKGRVLLV DGHHL AYRTFFALKGLTT SRGEPV QAVYGFAKSLLKALKEDG- DAVXVVFDAK	
	TAD PRO (SEQ ID NO:4) TR PRO (SEQ ID NO:5) TH PRO (SEQ ID NO:6)	. RG	တထင
	МАЈОВПУ	A P S F R H E A Y E A Y K A G R A P T P E D F P R O L A L I K E L V D L L G L X R L E V P G Y E A D D V L A T L A K K A E K E G Y E V R I L	
	140 PR0 ITA PR0 TTH PR0		33 38 40
- ,	MAJORITY	T A D R D L Y O L L S D R I A V L H P E G Y L I T P A W L W E K Y G L R P E O W V D Y R A L X G D P S D N L P G V K G I G E K T A X K L L X	
	140 PR0 TR, PR0 TTH PR0	К Н	209 208 210
	маловпт	EWGSLENLLKNLDRVKP XXREKI XAHMEDLXLSXXLSXVRTDLPLEVDFAXRREPDREGLRAFLERLEF	
	740 PRO TR. PRO TH. PRO	278 F O H. O S L L O. O. A. A B K O. H G B T. N L 278 278 E N V K L E B L E B L O G G C B G 289	278 277 280
•	маловпт	G S I L H E F G L L E X P KA L E E A P W P P P E G A F V G F V L S R P E P MW A E L L A L A A A R X G R V H R A X D P L X G L R D L K E V	•
	740 PR0 TR PR0 TR PR0	S	348 347 350

(SEC ID NO:8) RGILAKOLAVIAIREGLDLXPGDDPMLLAYILDPSHTTPEGVARRYGGEWTEDAGERALLSERILSKNLXXX (SEC ID NO:4)  (SEC ID NO:4)  (SEC ID NO:5)  I E		418 417 420		488 487 490		558 557 560		628 627 630		698 697 700
JORITY (SEQ ID NO:8) PRO (SEQ ID NO:4) PRO (SEQ ID NO:5) PRO (SEQ ID NO:4) JORITY JO	REGLDLXPGDDPMLLAYLLDPSNTTPEGVARRYGGEWTEDAGERALLSERLFXNL	S G. P A A A A A A	EVEKPL SRVLAHME AT GVRL DVAYL OAL SLEVAEEI RRLEEEVFRLAGHPFNL NSR	B A	AI GKTEKT GKRST SAAVLEAL REAHPI VEKI LOYRELTKLKNTYI DPL PXLVHPRT	DB	GRL SSSDPNLONI PVRT PL GORI RRAFVAE E GWXLVAL DY SOI EL RVLAHL SGDE		TASWMF GVPPEAVDPL MR RAAKTI NF GVL YGMSAHRL SOELAI PYEEAVAFI ERYF	B
1980 1980 1980 1980 1980 1980 1980 1980	(SEQ ID NO:8)	(SEQ ID NO:4) (SEQ ID NO:5) (SEQ ID NO:6)								
有 窗片层 被 窗片层 被 对片层 被 对片层 被 如下下	MAJORITY	140 P80 17. P80 17. P80	MAJORITY	- TAD PRO TAL PRO TAH PRO	MAJORITY	1A0 PRO TR. PRO TTH PRO	MAJORITY	TAQ PRO TR. PRO TTH PRO	MAJORITY	140 PR0 171 PR0 171 PR0

	768 767 770		833 831 835
SF PKV RAWI EKT LEEGRRBGY VET LFGRRRY V PDL NARVKSV REAAERMAF NMP V OGTAADL MK LAMVKL	ж	F P R L X E MG A R ML L Q V H D E L V L E A P K X R A E X V A A L A K E V ME G V Y P L A V P L E V E V G X G E D W L S A K E X	0. L
MAJORITY (SEQ ID NO:8) SFPKVRAWIEKI	(SEQ ID NO:4) (SEQ ID NO:5) ( SEQ ID NO:6)		·
MAJORIT	140 P80 17. P80 17. P80	MAJORITY	140 P30 TH P30 089 HT



Genes for Wild-Type and Pol(-) DNAPT#



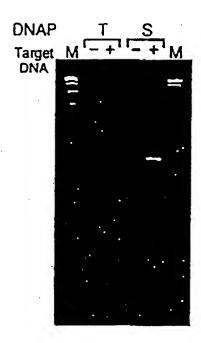


FIGURE 8

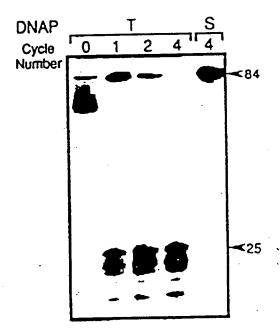


FIGURE 9

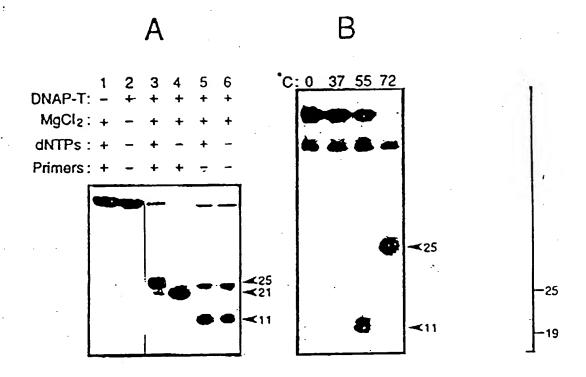
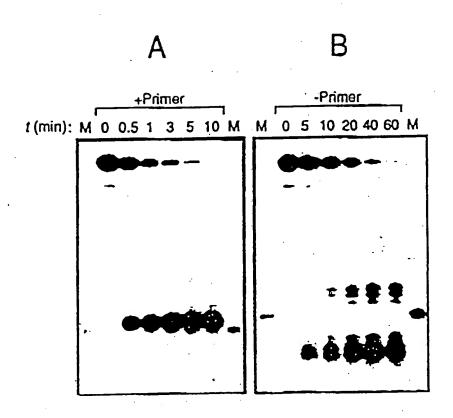
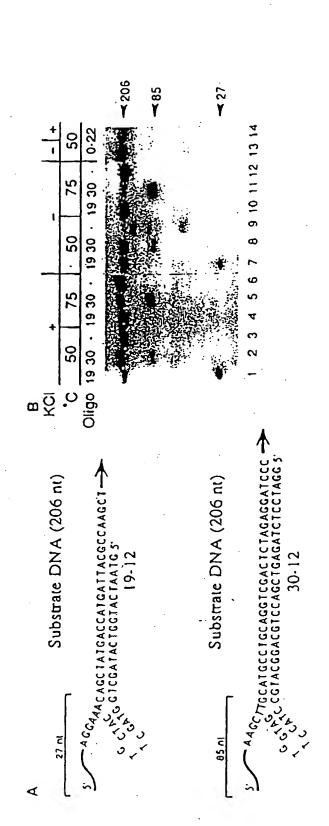


FIGURE 10





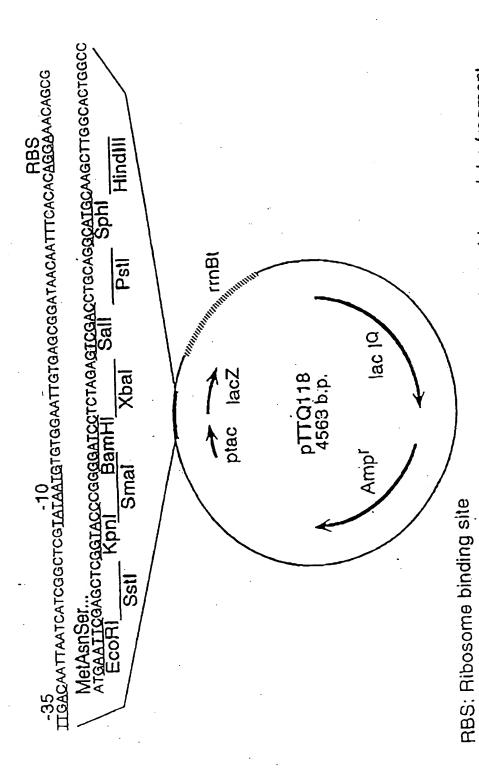


> A49CUGCAUGCGUCGACUCUAGAGGAUCCCC3 3.CGTACGGACGTCGAGATCTCCTAGG 5: 3.30-0

Substrate RNA (46 nt)

15 nt

FIGURE 14

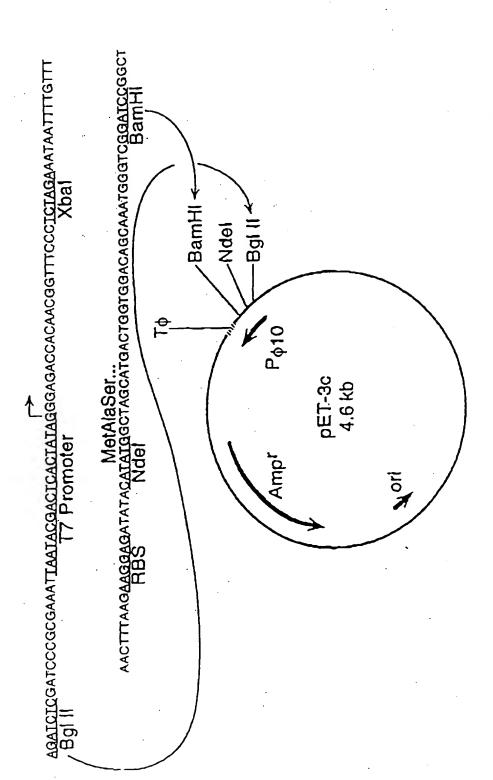


lacZ: Beta-galactosidase alpha fragment rrnBt: E. coli rrnB transcription terminator

ptac: Synthetic tac promoter

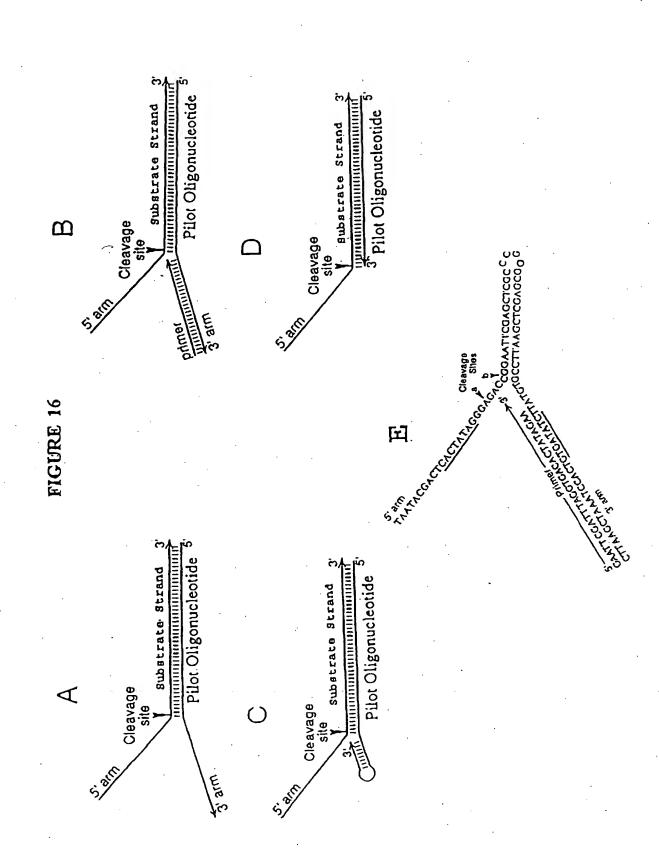
lac IQ: Lac repressor gene

FIGURE 15

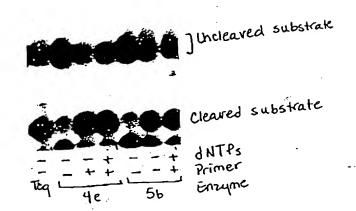


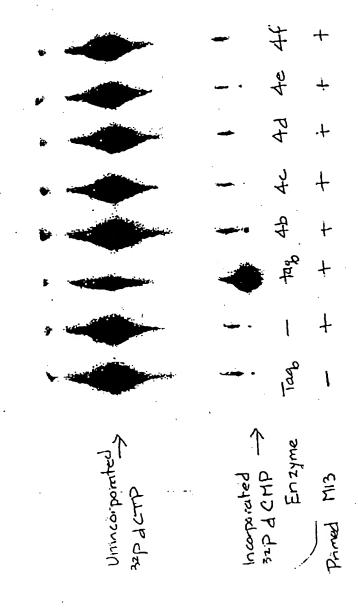
P<sub>\$10</sub>: Bacteriophage T7 \$10 promoter T\$: T7 \$ Terminator

RBS: Ribosome binding site



1 2 3 4 5 6 7





A

Sites of Cleavage with a gap of 6 pl.

Sattraggigacactatag Cagaat C CTTAAAGCTAAATCCACTGTGATATCTTATGTGCCTTA G

B

1 2 3 4 5 6 7 8

May Taylor.

The taylor.

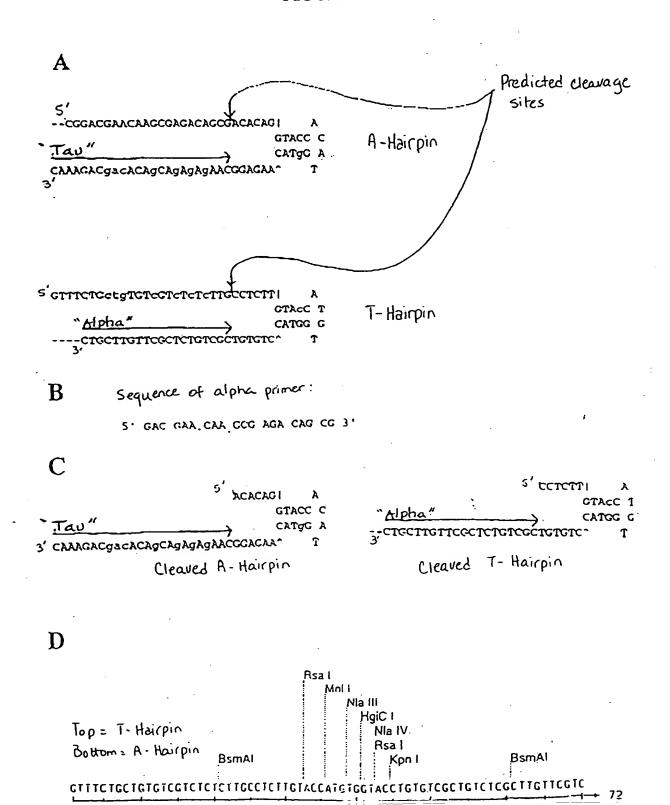
T

desired ->
product
u nuc

Multiple bods

Caused by polymerzation

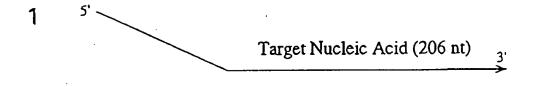
I some abancent cleavage with 46" because of residual polymerase activity.

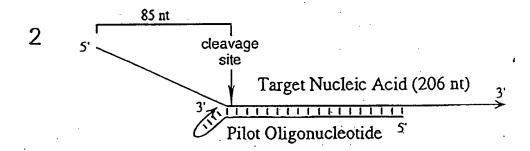


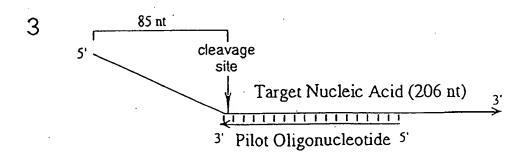
Ban II Sst 1 Asp 718 Ava I Kpn I Xma I Sma I Bam HI XI	GAGCTCGGTACCCGGC CTCGAGCCATGGGCC	Sall - BspM! Acc! Hinc!! Hinc!
	CGGCCAGIGAATIGIAAIAC GCCGGICACIIAACAIIAIG	CTATAGIGICACCTAAATAG GATATCACAGIGGATTTAIC SP6
	CGCCAGGGITITCCCAGTCACGACGTIGTAAAACGA	PSI I BSPM I Sph I Hind III AGCCATGCAAGCTTGAGTAITTE
	CGCCAGGGTTTTCCCAGTCACGACGTTGTAAA GCGGTCCCAAAAGGGTCAGTGCTGCAACATTT	Sall - Acc I Acc I Hinc II TAGAGTCGACCTGCAG ATCTCAGCTGGACGTC

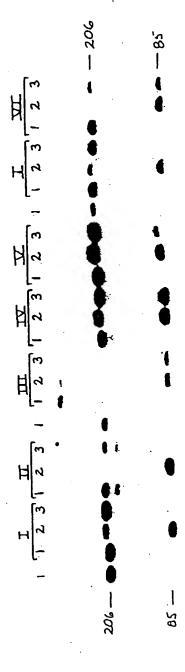
TCCGCTCACAATTCCACACATACGA
228
AGGCGAGTGTTAAGGTGTGTTGTATGCT
-48'keve 206

### FIGURE 22A









5 PL GACCAN TARGE CARENCALE 3 .

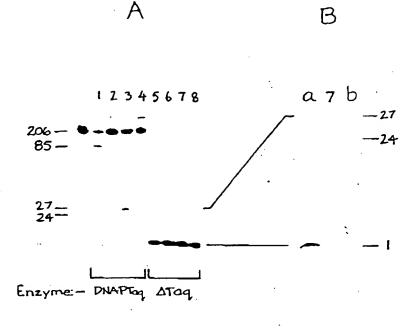
CDR Bead P10T Clecivose

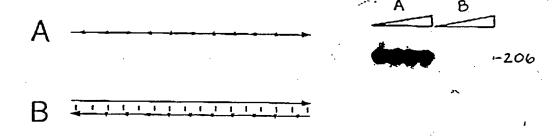
MIL

11111

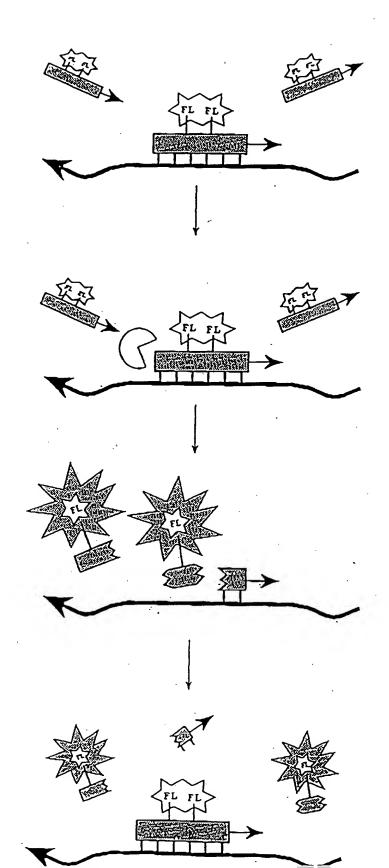
II (

ı

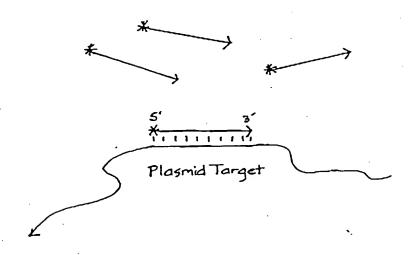




$$=$$
 <sup>32</sup>P



#### FIGURE 28A



# = 32 P 5' terminal phosphate

#### FIGURE 28B

M 1 2 3 4 5 6

	Wild-type Substrate	Mutant Substrate
1	rales	A (G)
Denature	5' A3'	5'G3'
2		1
Renature	5'A	5'AAA3'
3		<b>\</b>
Add cleavage agent		
	5'A	5'
4		cleavage site
Resolve reaction products	T-specific	Special Specia
5		·
Detect unique cleavage "finge	rprint"	
	,	

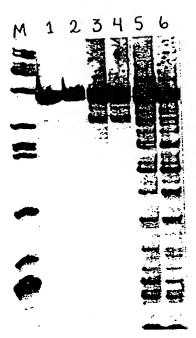
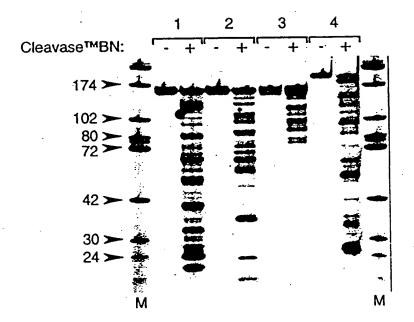
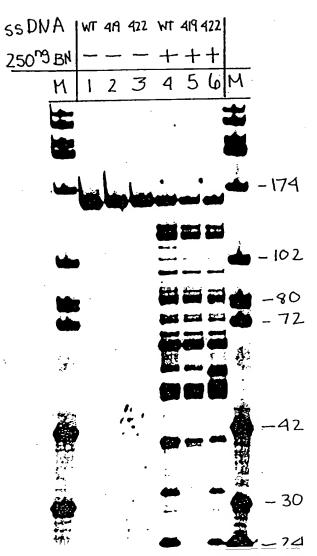


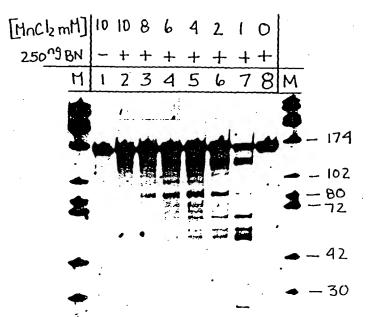
FIGURE 31

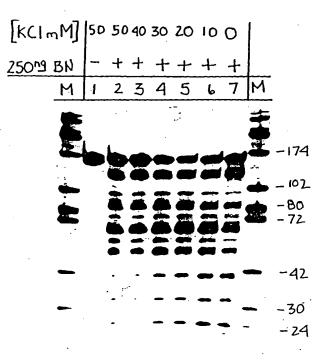


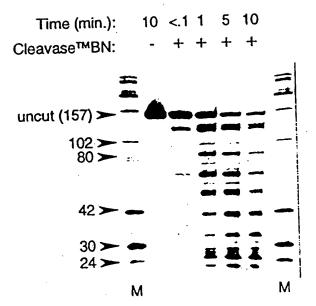


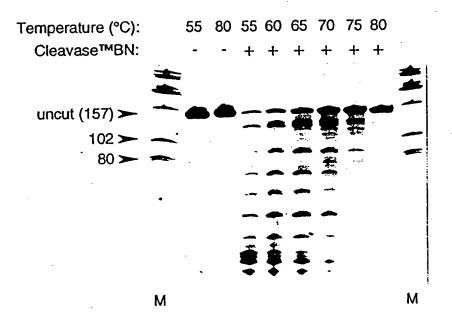


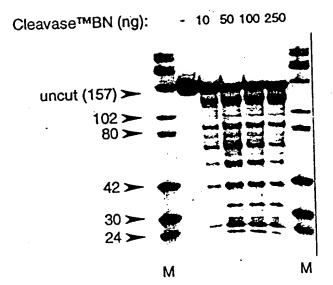
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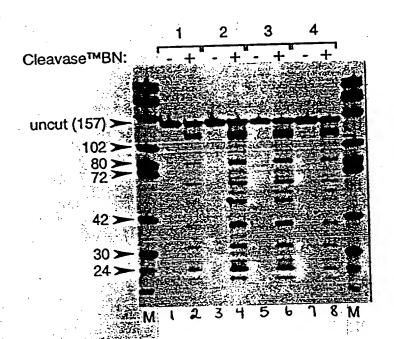




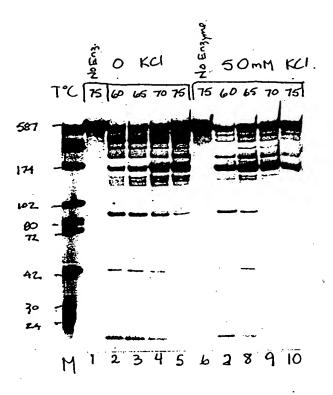


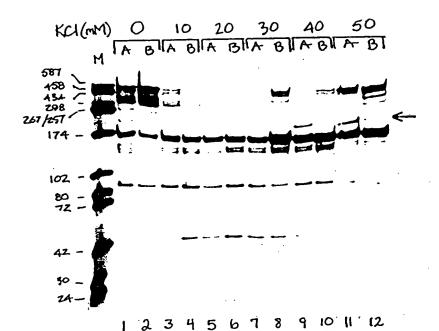


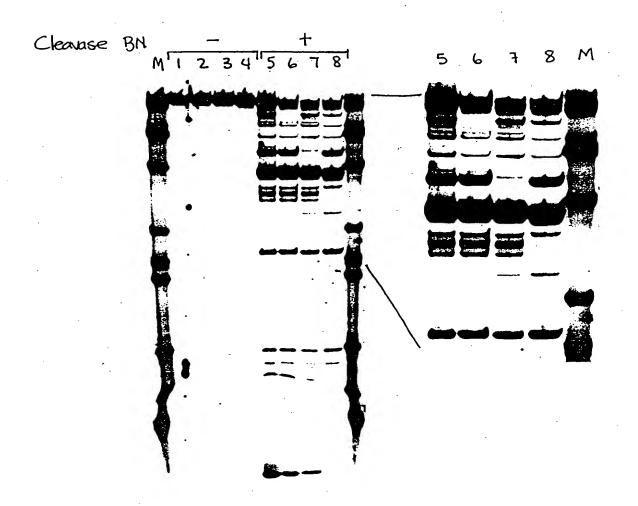




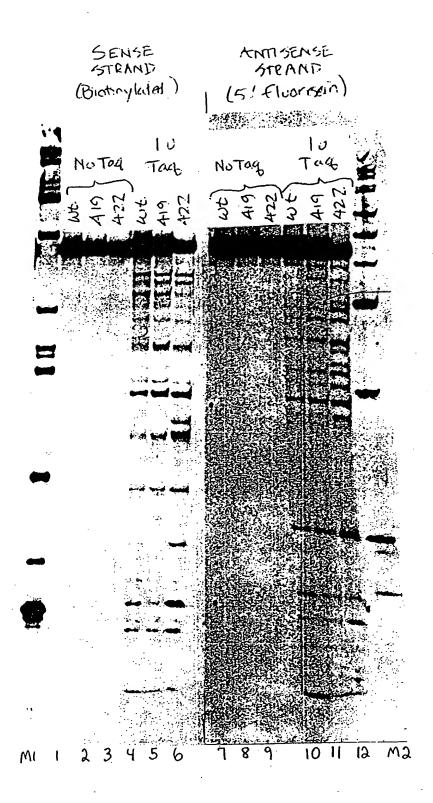
	5'BIOTIN	5 FILLORESCEIN
strand	5'BIOTIN SENSE STRAND	ANTI-SENSE STRAND
55 DNA	W+ 419 422 WT 419 422	WT 419 422 WT 49 422
250°BN	++	2 0 12 11 12
M	123456	7 8 9 10 11 12
		* ,
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		Annual Supple
	and the second	
	SEP SEP	
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	haid hand and	
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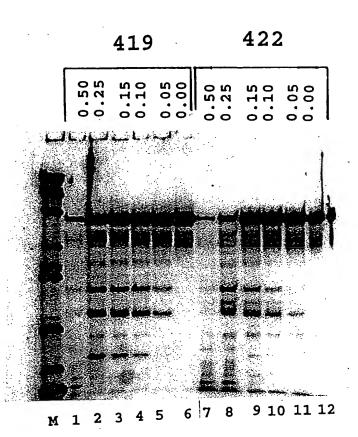


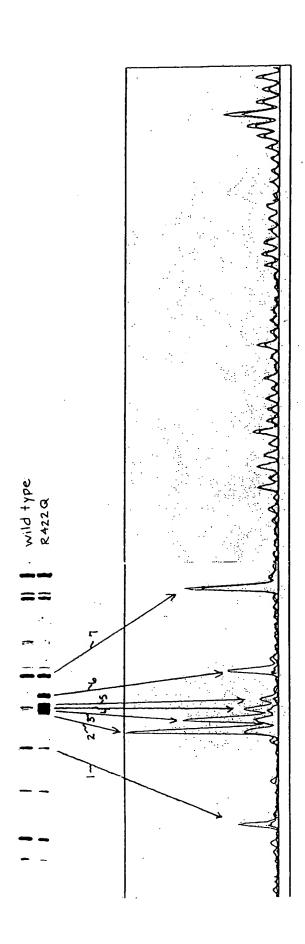






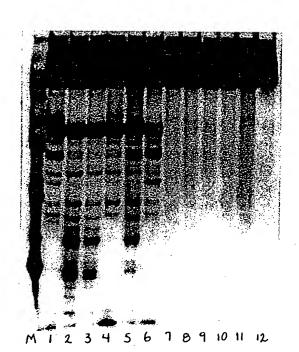


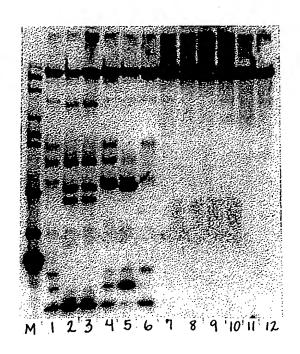


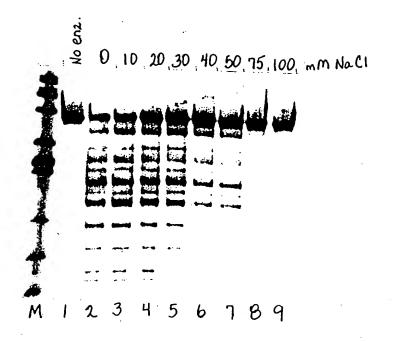


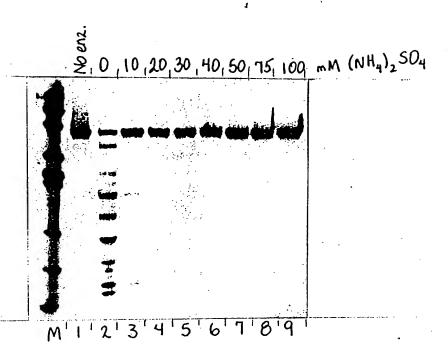
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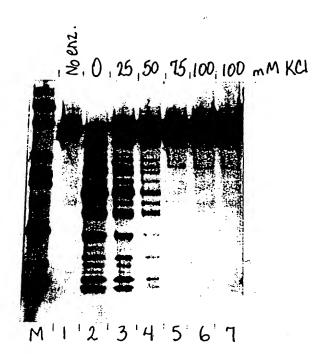
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ho_{1DN0:77})$  ) tegreterangeangatotogotestorategstaceance steterecargesargarcareatetegranattattatau3'TCGGACCCACAAGGGACGATCTGAGAGTGGTCGTGAACCGGCCACGACCC GTCTCACCGAGGTGCGAACGAACGAATTTCTGGAGAAGTATTTCGACGG 3'TCGGACCCACAAGGGACGATCTGAGAGTGGTCGTGAACCGGCCACGACCC GTCTCACTGAGGTGCGAACGAACGAATTTCGGGAGAAGTTATTTCGACGG 5º AGCCTGGGTGTTCCCTGCTAGACTCTCACCAGCACTTVGGCGGGTGCTGGG CAGAGTGGCTCCACGCTTGCTTAAAAAACTCTTCAATAAAGCTGCC L.46.16-10 5'AGCCTGGGTGTTCCCTGCTAGACTCTCACCAGCACTTTAGCCAGTGCTGGG CAGAGTGGCTCCACGCTTGCTTAAAGACCTCTTCAATAAAGCTGCC 5 ' AGCCTGGGTGTTCCCTGCTAQACTCTCACCAGCACTTGGCCAGTGCTGGG CAGAGTGGCTCCACGCTTGCTTAAAGACCTCTTCAATAAAGCTGCC 3 I TOGGACCCACAAGGGACGATCTGAGAGTGGTCGTGAACCGGTCACGACCC GTCTCACCGAGGTGCGAACGAACGAATTTCTGGAGAAGTTATTCGACGG s'agecregenerrecenceracereceaceacretiggecegreges cagastagerece cacactes erractigerrangae errentean na angerece S'AGCCTGGGTGTTCCCTGCTAGACTCTCACCAGCACTTGGCCGGTGCTGGG CAGAGTGACTCCACGCTTGCTTAAAGCCCTCTTCAATAAAGCTGCC 5 PATTITAGAAGTAGGCTAGTGTGTTCCCATCTCTCCTAGCCGCCGCCTG G 3' 5 ATTITIAGAAGTAGGCTAGTGTGTTCCCATCTCCTAGCCGCCGCCTG G 3' 5' ATTITAGAAGIAAGCTAGTGTGTTCCCATCTCCTAGCCGCCGCCTG G 3' 3. TAAAATCTTCATCCGATCACACACAAGGGTAGAGGGATCGGCGGCGGGGAC C 5. ŝ L,46,16-10 5'AITITAGAAGTAAGCCAGTGTGTGTTCCCATCTCTCCTAGCCGCCGCCTG G 3' 5 ATTITAGAAGTAGGCCAGTGTGTTCCCATCTCTCCTAGCCGCCGCCTG G 3'INAAAICTICATICGTCACACACAAGGGTAGAGGATCGGCGGCGGAC L.46.16-12 S'ATTTTAGAAGTAAGCCAGTGTGTGTTCCCATCTCTCCTAGCCGCCGCCTG G ) TAAAATCTTCATTCGGTCACACAAGGGTAGAGAGGATCGGCGGCGGAC C 3 TAAAATCTTCATTCGATCACACACAAGGGTAGAGAGGATCGGCGGCGGAC C 3 'TAAAATCTICATCCGATCACACACAAGGGTAGAGAAGGATCGGCGGCGGAC C 3'TAAAATCTTCATCCGGTCACACACACGGGTAGAGAGGATCGGCGGGGGGAC C -250-350 Hairpin L.46.16-12 (550 ID NO: 80) (PT: ON Q1 035) L.CEM/251 L. 100.8-1 L.19.16-3 L. CEM/251 L.19.16-3 L.100.8-1 (8C : OND: 28) (18:0N Q1 87) (9C3) IDNO: 1P) L.36.8-3 L.36.8-3

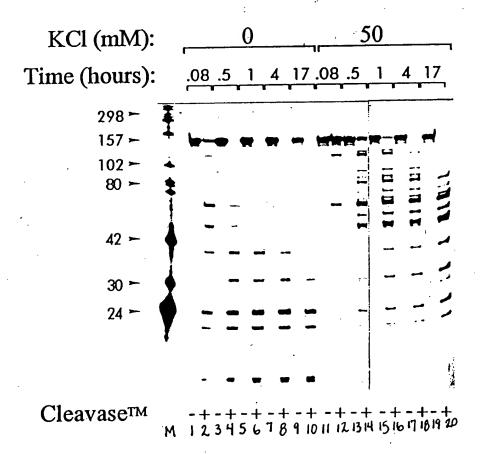


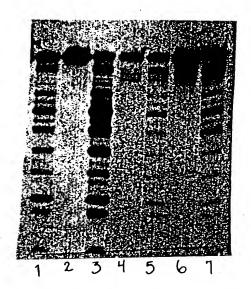


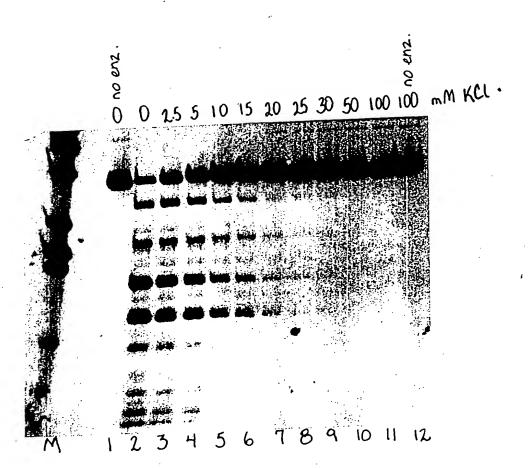


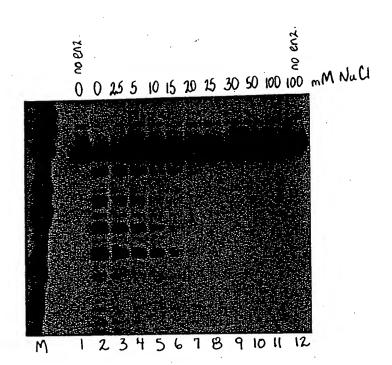


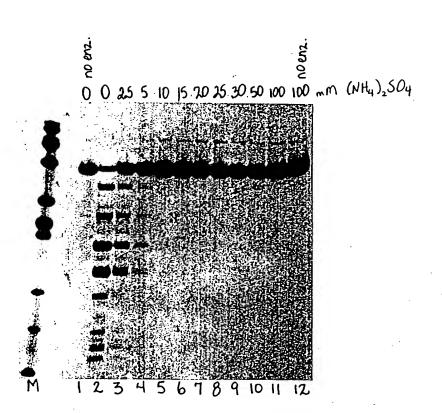


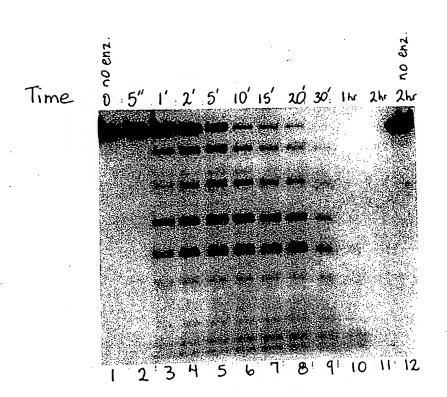


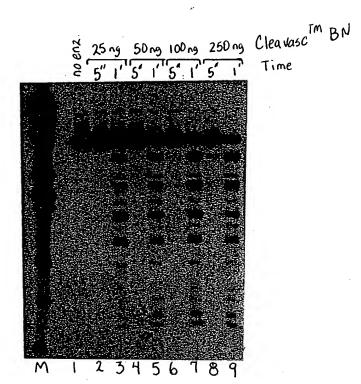


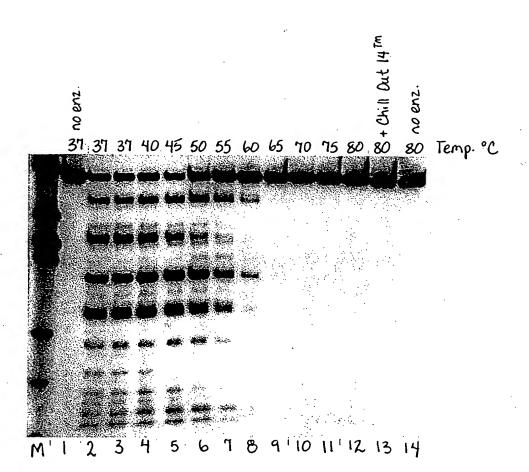


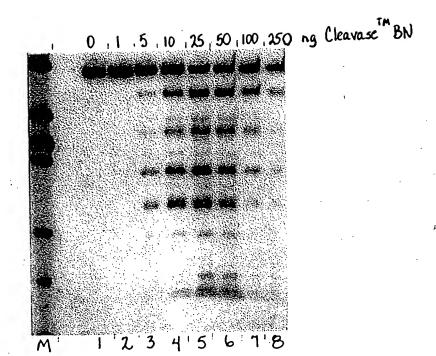






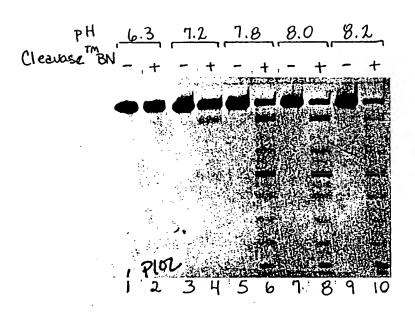


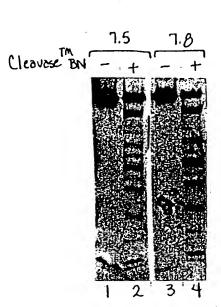




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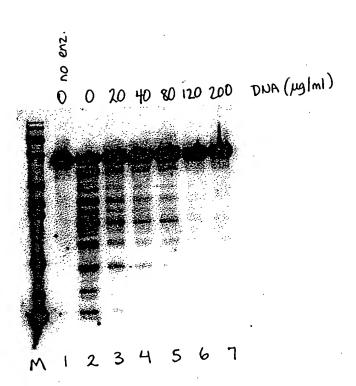
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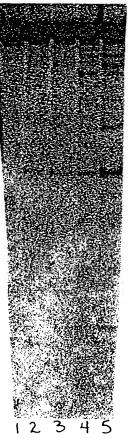


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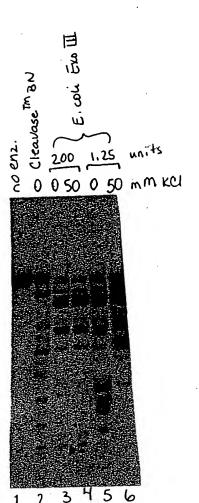
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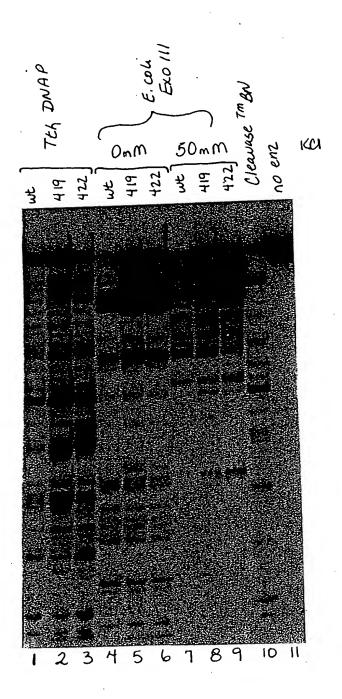


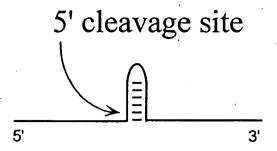
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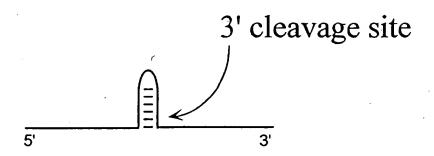


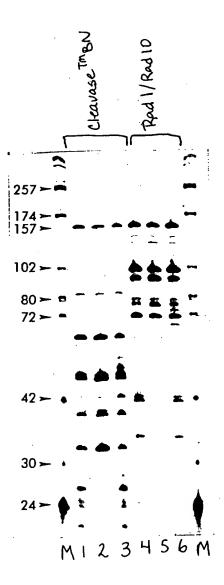
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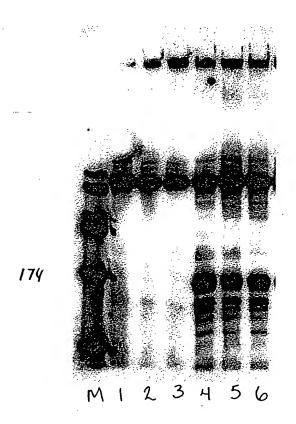










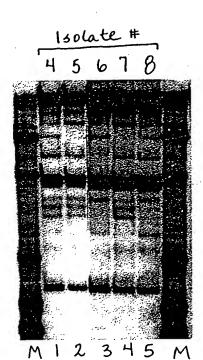


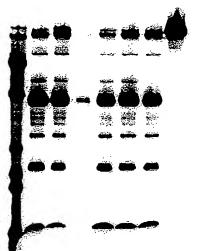
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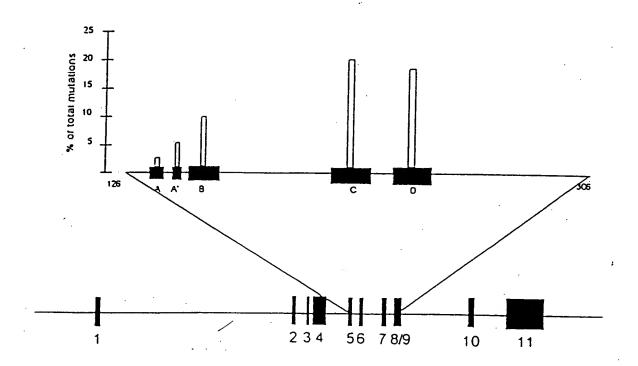
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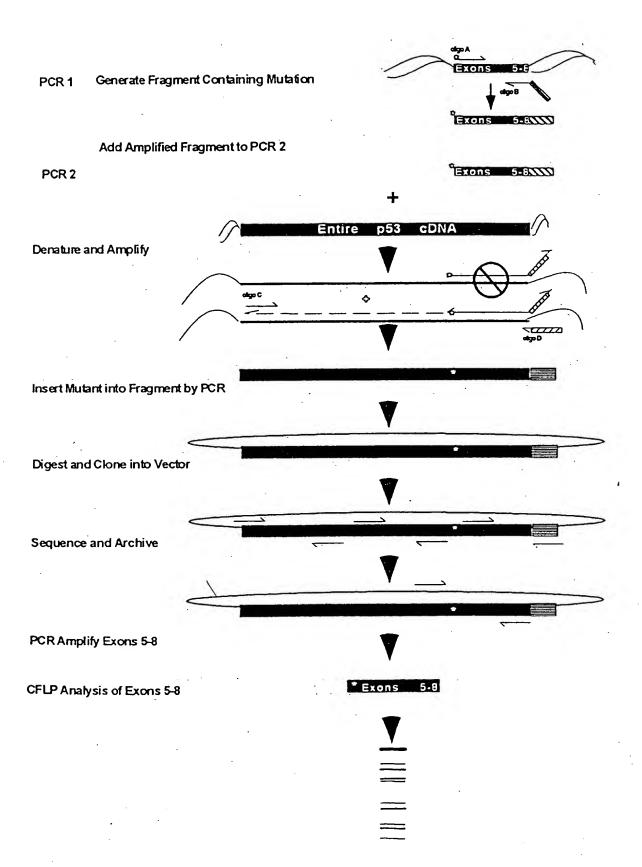


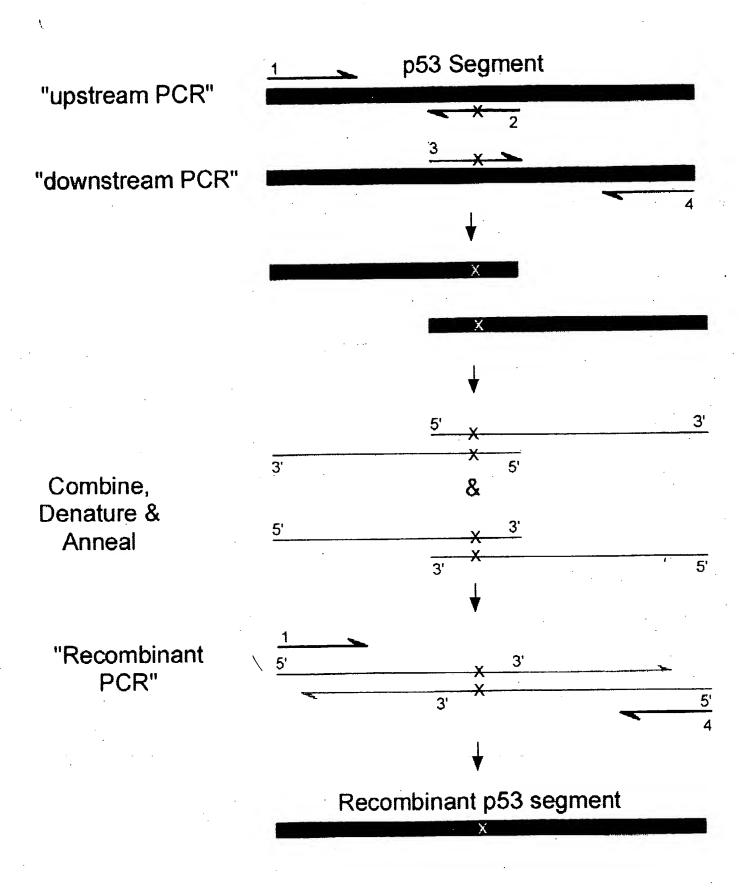


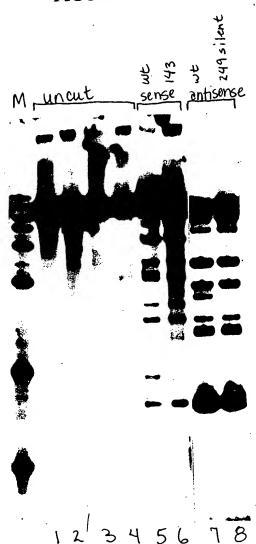
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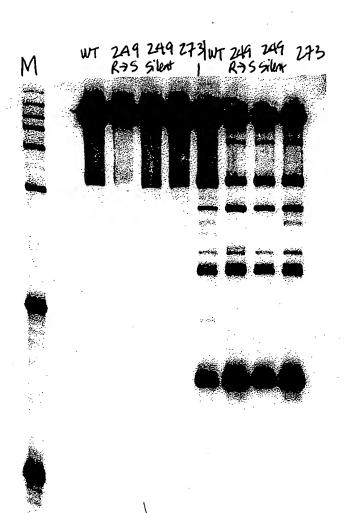
FIGURE 76





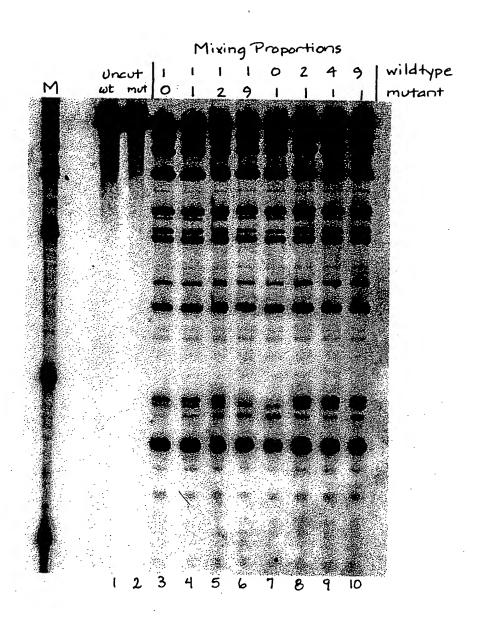




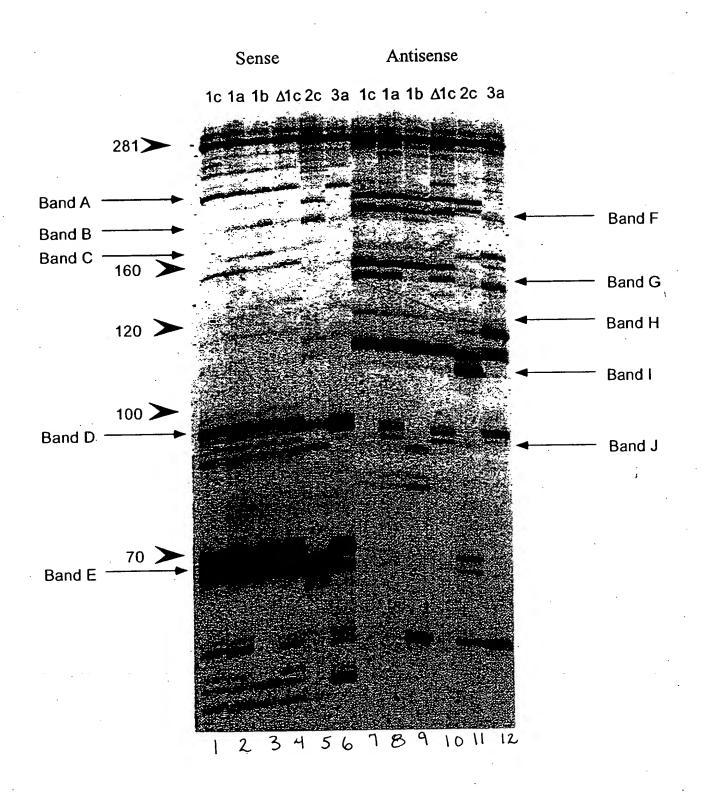


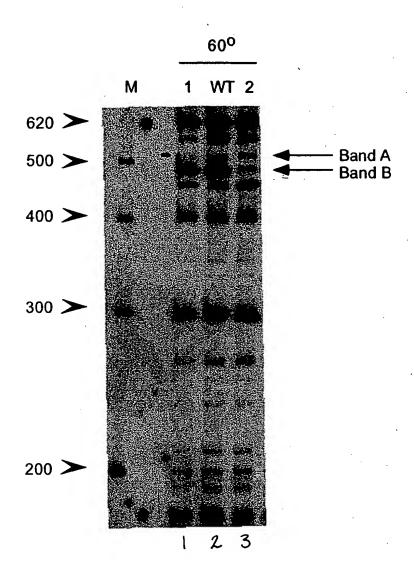
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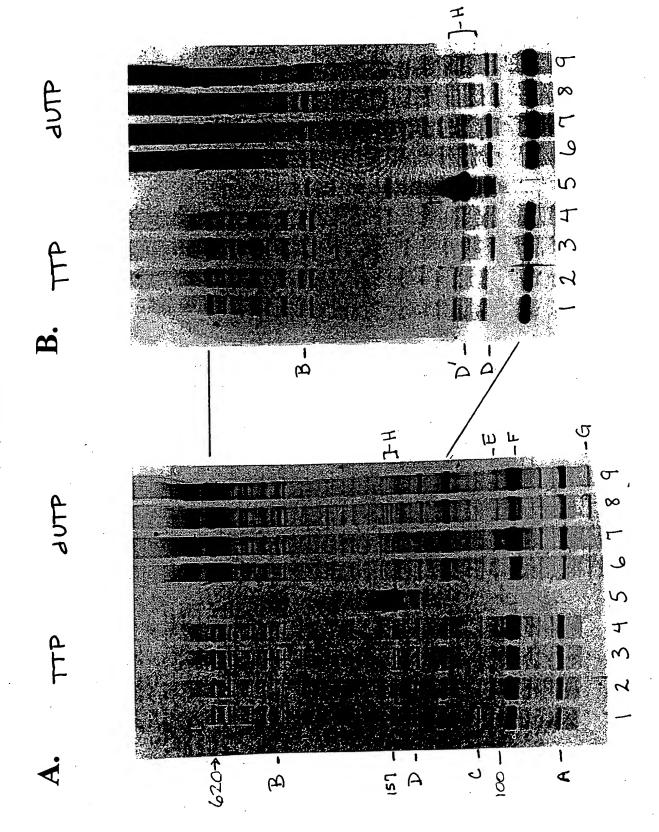
FIGURE 81

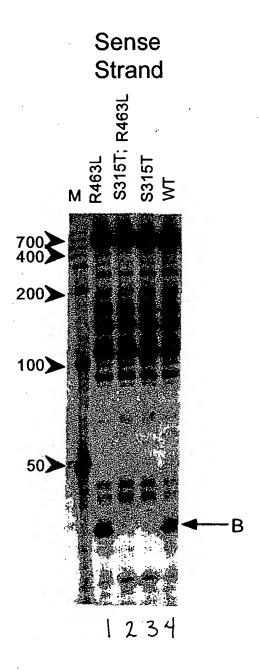


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н	51	101	151	201	251
Q ID NO:121) Q ID NO:122) Q ID NO:123) Q ID NO:124) Q ID NO:125) Q ID NO:125)					
HCV1.1 (SEQ HCV2.1 (SEQ HCV3.1 (SEQ HCV4.2 (SEQ HCV6.1 (SEQ HCV7.1 (SEQ	HCV1.1 HCV2.1 HCV3.1 HCV4.2 HCV6.1	HCV1.1 HCV2.1 HCV3.1 HCV4.2 HCV6.1	HCV1.1 HCV2.1 HCV3.1 HCV4.2 HCV6.1	HCV1.1 HCV2.1 HCV3.1 HCV4.2 HCV6.1	HCV1.1 HCV2.1 HCV3.1 HCV4.2 HCV6.1

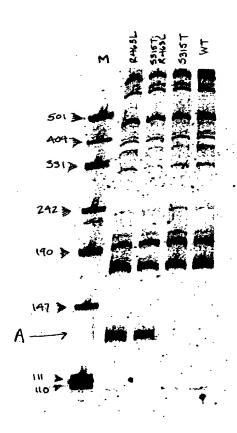








## Antisense Strand



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50	2.0	0.0	100	110	. 120	
70	80	90	100	110	120	
					GGGTGAGTAA	ER10
				AGTGGCGGAC		
CAGCTTGCCA	TTGTCCTTCT	TCGAACGAAG	AAACGACTGC	TCACCGCCTG	CCCACTCATT	
	•	•				
130	140	150	160	170	180	
		•	AACTACTGGA	AACGGTAGCT	AATACCGCAT	
				TTGCCATCGA		
ACAGACCCTT	IGACGGACIA	CCICCCCIA	TIGATGACCI	TIGCCATCGA	TIMIGGCGIM	
100	200	210	220	220	240	
190	200	210	220	230		
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CCIANICONI	CATCCACCCC	ATTGCCGAGT	CONTECCCIO	C11.000.11.00	11001101101	
310	320	330	340	350	-360	
				CCTACGGGAG		
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		•	TGA	GGATGCCCTC	CGTCGTC	1659
370	380	390	400	410	420	
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	CCCAACAACC	TTACCTGGTC	TTGACATCCA	CGGAAGTTTT	CAGAGATGAG	
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AGCTGAGGTA	CTTCAGCCTT	AGCGATCATT  1410	AGCACCTAGT	GGGTTGCAAA	CACTTATGCA  1440 A AGAAGTAGGT	
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1390 TCCCGGGCC AGGGCCCGG	1400 T TGTACACACA ACATGTGTGGA ACATG	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT	1420 CCATGGGAGT GGTACCCTCA	GCTTACGGTGC GC 1430 GGGTTGCAAA CCCAACGTTT	CACTTATGCA  1440 A AGAAGTAGGT TCTTCATCCA  1500	1743
1390 TCCCGGGCCGAGGGCCCGGAGGGCCCGGA	1400 TGTACACACA ACATGTGTGC A ACATG	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT  1470	1420 CCATGGGAGT GGTACCCTCA	GCTTACGGTGC GC 1430 GGGTTGCAAA CCCAACGTTT 1490 TGACTGGGGG	CACTTATGCA  1440 A AGAAGTAGGT TCTTCATCCA  1500 GAAGTCGTAA	1743
1390 TCCCGGGCCGAGGGCCCGGAGGGCCCGGA	1400 TGTACACACA ACATGTGTGC A ACATG	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT  1470	1420 CCATGGGAGT GGTACCCTCA	GCTTACGGTGC GC 1430 GGGTTGCAAA CCCAACGTTT 1490 TGACTGGGGG	CACTTATGCA  1440 A AGAAGTAGGT TCTTCATCCA  1500 GAAGTCGTAA	1743
1390 TCCCGGGCCGAGGGCCCGGAGGGCCCGGA	1400 TGTACACACA ACATGTGTGC A ACATG	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT  1470	1420 CCATGGGAGT GGTACCCTCA	GCTTACGGTGC GC 1430 GGGTTGCAAA CCCAACGTTT 1490 TGACTGGGGG	CACTTATGCA  1440 A AGAAGTAGGT TCTTCATCCA  1500	1743
1390 TCCCGGGCC AGGGCCCGG AGGGCCCGG AGGCCCGG TCGAATTGG	1400 T TGTACACACA ACATG A ACATG T TCGGGAGGGA AGCCTCCC	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT  1470 C GCTTACCACT C CGAATGGTGA	1420 CCATGGGAGT GGTACCCTCA 1480 TTGTGATTCA AACACTAAGT	GCTTACGGTGC GC 1430 GGGTTGCAAA CCCAACGTTT 1490 A TGACTGGGGT	CACTTATGCA  1440 A AGAAGTAGGT TCTTCATCCA  1500 GAAGTCGTAA A CTTCAGCATT	1743
1390 TCCCGGGCC AGGGCCCGG AGGGCCCGG AGGCCCGG TCGAATTGG	1400 T TGTACACAC A ACATGTGTGGA ACATG T TCGGGAGGGA AGCCCTCCC	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT  1470 C GCTTACCACT C CGAATGGTGA	1420 CCATGGGAGT GGTACCCTCA 1480 TTGTGATTCA AACACTAAGT	GCTTACGGTGC GC 1430 GGGTTGCAAA CCCAACGTTT 1490 A TGACTGGGGT ACTGACCCCA	CACTTATGCA  1440 A AGAAGTAGGT TCTTCATCCA  1500 G GAAGTCGTAA A CTTCAGCATT	1743
1390 TCCCGGGCC AGGGCCCGG AGGGCCCGG AGGCCCGG  1450 AGCTTAACC TCGAATTGG	1400 T TGTACACAC A ACATGTGTGC A ACATG T TCGGGAGGGCA AGCCCTCCCC	AGCGATCATT  1410 C GCCCGTCACA C CGGGCAGTGT  1470 C GCTTACCACT C CGAATGGTGA	1420 CCATGGGAGT GGTACCCTCA TTGTGATTCA AACACTAAGT	1430 GGGTTGCAAA CCCAACGTTT 1490 TGACTGGGGGT ACTGACCCCA	CACTTATGCA  1440 A AGAAGTAGGT T TCTTCATCCA  1500 G GAAGTCGTAA A CTTCAGCATT  0	1743

TGAACGCTGGCGGCAGGCCTAACACATGCA TGAACGCTGGCGGCGTGCCTAATACATGCA TGAACGCTGGCGGCGTGCCTAATACATGCA	GGCGGACGGG TTCTTTGCTGACGAGGGGGGGGGGGGGGGGGGGGGG	BGGGGATAACTACTGGAAACGGTAGCTAATA \GAGGACAACAGTTGGAAACGACTGCTAATA TTGGGATAACTTCGGGAAACCGGAGCTAATA	TAGG-GAAAGAGGGGACCTTCG-GGCCTCTTG TAGG-GAAAGTTTTTCG AAAGTGAAAGACGGTCTTGCTGTCA	TAGGTGGGGTAACGGCTCACCTAGGCGACGA TTGGTAAGGTAA	TCCCTAGCTGGTCTGAGAGGATGACCAGCCACACTGGAACTGAGACACGGTCCAGACTCCTA CGCTTAACTGGTCTGAGAGGATGATCAGTCACACTGGAACTGAGACACGGTCCAGACTCCTA TACGTAGCCGACCTGAGAGGGTGATCGGCCACACTGGAACTGAGACACGGTCCAGACTCCTA	CGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGCAAGCCTGATGCAGCCATGCCGCGTG CGGGAGGCAGCAGTAGGGAATATTGCGCAATGGGGGAAACCCTGACGCAGCAACGCCGCGTG CGGGAGGCAGCAGTAGGGAATCTTCCGCAATGGGCGAAAGCCTGACGGAGCAACGCCGCGTG CGGGAGGCAGCAG	TATGAAGAAGGCCTTCGGGTTGTAAAGTACTTTCAGCGGGGAGGAA_GGGAGTAAAGTTAAT GAGGATGACACTTTTCGGAGCGTAAACTCCTTTTCTTAGGGAAGAAGT AGTGATGAAGGTCTTCGGATCGTAAACTCCTGTTATTAGGGAAGAACATATGTGTAAGTAA	ACCTTTGCTCATTGACGTTACCCGCAGAAGAAGCACCGGCTAACTCCGTGCCAGCAGCGGCG CTGACGGTACCTAAGGAATAAGCACCGGCTAACTCCGTGCCAGCAGCGGG
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NO:151) SEQ ID NO:158)0 SEQ ID NO:159)0 SEQ ID NO:160)0	ID NO:152) 60 62 62	114 114	175 176 175	221 221 229	283 283 291	345 345 353 353	407 407 415	4 468 6 6 8
1638 (SEQ ID E.colirrsE (S Cam.jejun5 (S Stp.aureus (S	ER10 (SEQ ID E.colirrsE Cam.jejun5 Stp.aureus	ER10 E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus 1659(COMPL)	E.colirrsE Cam.jejun5 Stp.aureus 1659(COMPL)	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5

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530 506 538	592 568 600	654 630 662	716 692 724	778 754 786	840 816 848	900 876 909	962 938 971	1024 1000 1033	1081 1061 1092
E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	E.colirrsE Cam.jejun5 Stp.aureus	sb-1 E.colirrsE Cam.jejun5 Stp.aureus

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SB-3

SB-4

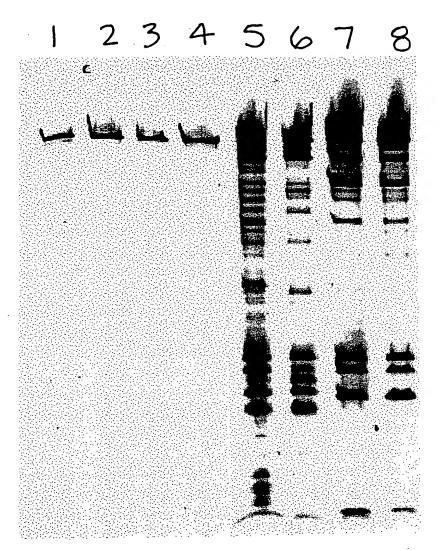
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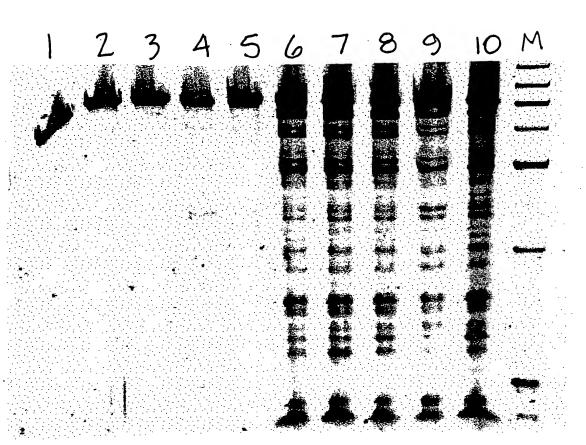
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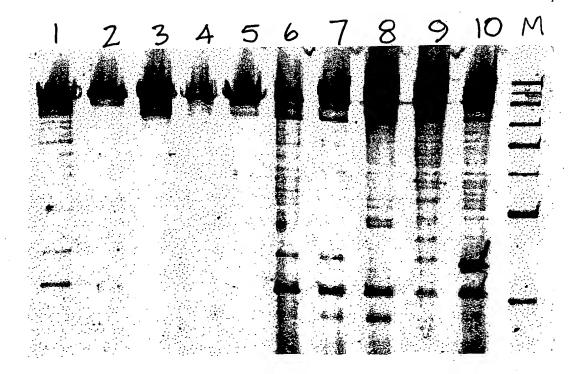
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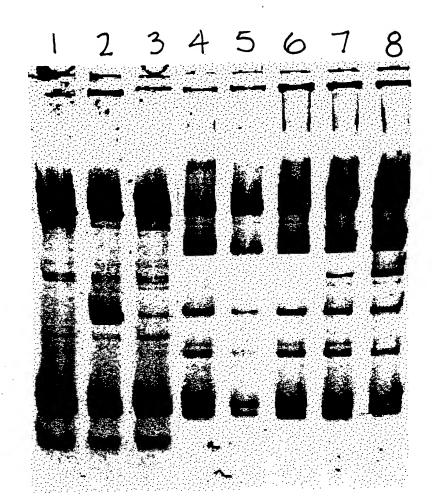
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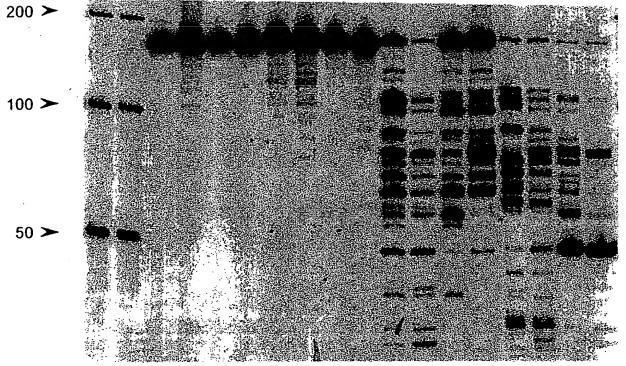






-Cleavase<sup>TM</sup>

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